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1589015

# THE UNITED STATES OF AMERICA

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United States Patent and Trademark Office

*March 19, 2007*

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**APPLICATION NUMBER: 60/503,455**

**FILING DATE: *September 17, 2003***

**RELATED PCT APPLICATION NUMBER: *PCT/US04/30537***

**THE COUNTRY CODE AND NUMBER OF YOUR PRIORITY APPLICATION, TO BE USED FOR FILING ABROAD UNDER THE PARIS CONVENTION, IS *US60/503,455***



Certified by

Under Secretary of Commerce  
for Intellectual Property  
and Director of the United States  
Patent and Trademark Office

# PROVISIONAL APPLICATION FOR PATENT COVER SHEET

15757 U.S. PTO  
607503455  
09/17/03

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(b)(2).

INVENTOR(s)/APPLICANT(s)					
Given Name (first and middle [if any])		Family Name or Surname		Residence (CITY AND EITHER STATE OR FOREIGN COUNTRY)	
Charles J.		GROELLER		7672 Longwood Drive Orefield, PA 18069	
<input type="checkbox"/> Additional inventors are being named on the _____ separately numbered sheets attached hereto.					
TITLE OF THE INVENTION (280 characters max)					
BATTERY CABLE WITH PROVISIONS FOR INTEGRAL CIRCUIT PROTECTION					
CORRESPONDENCE ADDRESS					
<input checked="" type="checkbox"/> Customer Number: 6449					
<input type="checkbox"/> Firm or Individual Name		Rothwell, Figg, Ernst & Manbeck, P.C.			
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ENCLOSED APPLICATION PARTS (check all that apply)					
<input checked="" type="checkbox"/> Specification    Number of Pages [ 1 ]		<input type="checkbox"/> CD(s), Number _____			
<input checked="" type="checkbox"/> Drawing(s)    Number of Sheets [ 4 ]		<input type="checkbox"/> Other (specify) _____			
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76					
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)					
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Fee Amount:			
<input type="checkbox"/> A check or money order is enclosed to cover the filing fee					
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 02-2135		\$160.00			
<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.					

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.

☐ Yes, the name of the U.S. Government agency and the Government contract number are: \_\_\_\_\_

Respectfully submitted,

SIGNATURE \_\_\_\_\_

Date September 17, 2003

TYPED or PRINTED NAME George R. Repper  
TELEPHONE : 202-783-6040

REGISTRATION NO. 31,414  
Docket Number: 1110-309

USE ONLY FOR FILING PROVISIONAL APPLICATION FOR PATENT

## **Battery Cable With Provisions For Integral Circuit Protection**

This device provides the primary truck battery cable with a provision to supply protected B+ and Ground to the truck electrical system. The protection device as shown in the drawings is a Mega-Fuse but the design should not be limited to the Mega-Fuse since a circuit breaker or other fuse system would also be acceptable.

The device provides a battery cable with a unique battery terminal lug that includes a threaded stud on the parent terminal material or an additional independent terminal attached to the battery cable with a threaded stud supplying battery power or ground to the protection device. The device provides clean battery power and ground to the protection device without the need for supplemental interconnect cables thus eliminating unwanted voltage drop and eliminating the added cost of the interconnect cable.

Figures 1-4 show various aspects of the invention.

**BATTERY CABLE WITH PROVISIONS FOR  
INTEGRAL CIRCUIT PROTECTION**  
Inventor: Charles GROELLER  
Serial No.: New Provisional Application  
Filed: September 17, 2003  
Atty Docket: 1110-309  
1 of 4 sheets

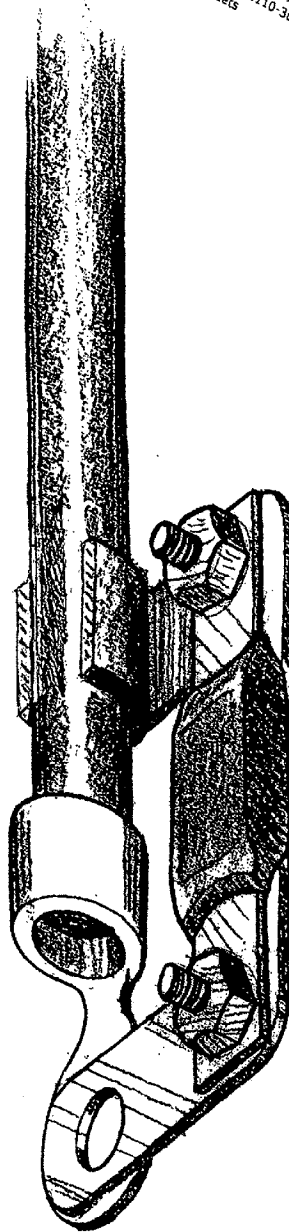


Fig. 1

**BATTERY CABLE WITH PROVISIONS FOR  
INTEGRAL CIRCUIT PROTECTION**  
Inventor: Charles GROELLER  
Serial No.: New Provisional Application  
Filed: September 17, 2003  
Atty Docket: 1110-309  
2 of 4 sheets

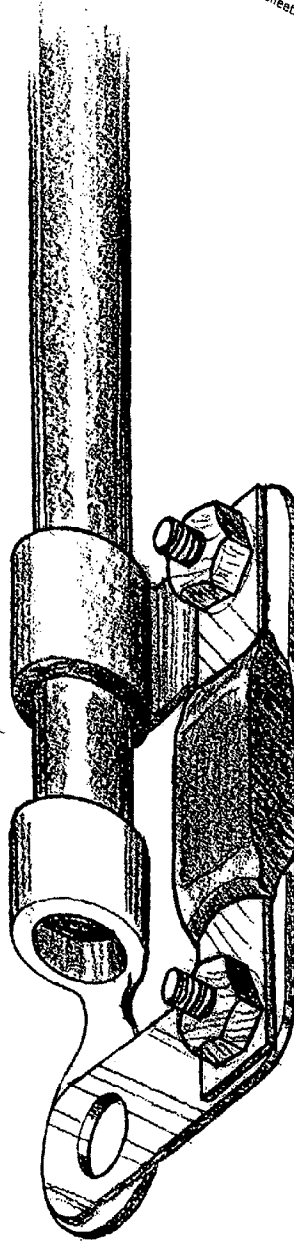


Fig. 2

BATTERY CABLE WITH PROVISIONS FOR  
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Inventor: Charles GROELLER  
Serial No.: New Provisional Application  
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3 of 4 sheets

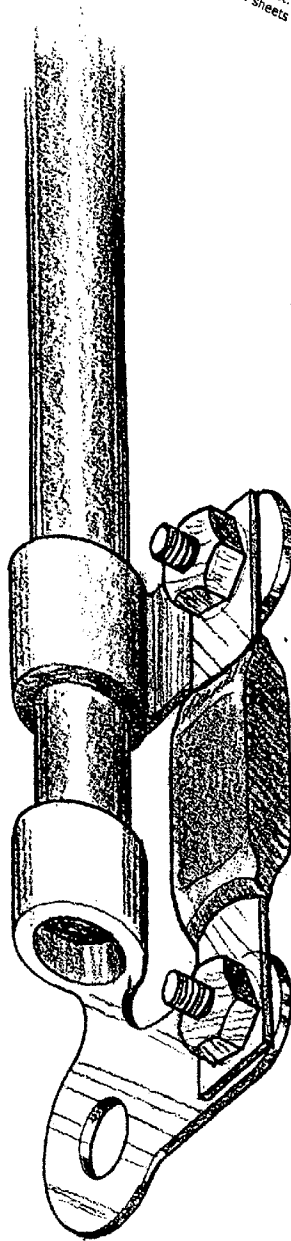


Fig. 3

**BATTERY CABLE WITH PROVISIONS FOR  
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Inventor: Charles GROELLER  
Serial No.: New Provisional Application  
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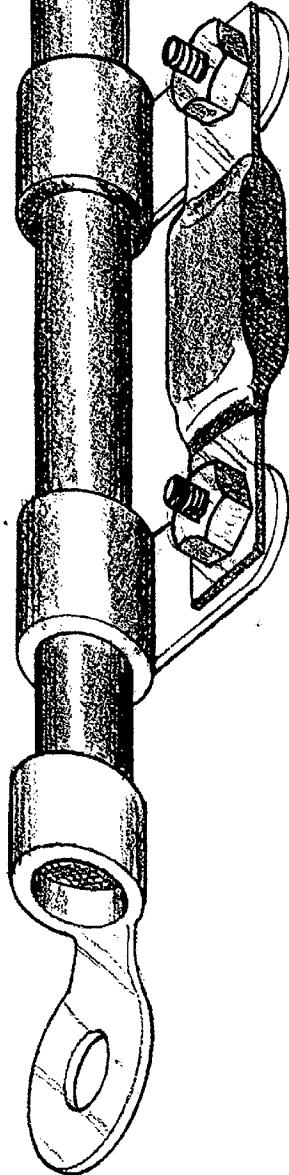


Fig. 4